

OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/029,359

DATE: 01/15/2002  
TIME: 07:45:59

Input Set : A:\10806156.txt  
Output Set: N:\CRF3\01152002\J029359.raw

3 <110> APPLICANT: Pharmacia AB  
5 <120> TITLE OF INVENTION: Protein Cluster II  
7 <130> FILE REFERENCE: 00404  
9 <140> CURRENT APPLICATION NUMBER: US/10/029,359  
9 <141> CURRENT FILING DATE: 2001-12-21  
9 <160> NUMBER OF SEQ ID NOS: 6  
11 <170> SOFTWARE: PatentIn version 3.0  
13 <210> SEQ ID NO: 1  
14 <211> LENGTH: 505  
15 <212> TYPE: DNA  
16 <213> ORGANISM: human  
18 <220> FEATURE:  
19 <221> NAME/KEY: CDS  
20 <222> LOCATION: (21)..(497)  
22 <220> FEATURE:  
23 <221> NAME/KEY: misc\_feature  
24 <222> LOCATION: (297)..()  
25 <223> OTHER INFORMATION: n=a, g, c or t  
27 <400> SEQUENCE: 1

Does Not Comply  
Corrected Diskette Needed

P2

W-10  
W-A

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29	Met Thr Glu Asn Ser Leu Ser Glu Met Ala Ser	
30	1 5 10	
32	aaa tcc tgg ctg aat ttt tta acc ttc ctc tat gga tcg gca ata ggg	101
33	Lys Ser Trp Leu Asn Phe Leu Thr Phe Leu Tyr Gly Ser Ala Ile Gly	
34	15 20 25	
36	ttt att tta ttt tct cag cta ctt agt att ttg ttg gga gaa gag ggt	149
37	Phe Ile Leu Phe Ser Gln Leu Leu Ser Ile Leu Leu Gly Glu Glu Gly	
38	30 35 40	
40	gac acc cag act aat gtt ctt cat aat gat cct cat gcg agg cat tca	197
41	Asp Thr Gln Thr Asn Val Leu His Asn Asp Pro His Ala Arg His Ser	
42	45 50 55	
44	gat gat aat gga cag aat cat cta gga gga caa atg aac ttc aat gca	245
45	Asp Asp Asn Gly Gln Asn His Leu Gly Gly Gln Met Asn Phe Asn Ala	
46	60 65 70 75	
48	gat tct agc caa cgt aaa gat gag aac aca gaa atc gct gaa aac ctc	293
49	Asp Ser Ser Gln Arg Lys Asp Glu Asn Thr Glu Ile Ala Glu Asn Leu	
50	80 85 90	
52	tat nag caa gtt aaa att ctt tgc tgg gtt atg aca ggc tct caa aac	341
53	Tyr Xaa Gln Val Lys Ile Leu Cys Trp Val Met Thr Gly Ser Gln Asn	
54	95 100 105	
56	cta cag aaa aag gcc aaa cat gtc aaa gct aca tgg gcc cag cgt tgt	389
57	Leu Gln Lys Lys Ala Lys His Val Lys Ala Thr Trp Ala Gln Arg Cys	
58	110 115 120	
60	cta aaa gta ttt ttt atg agt tca gaa gaa aat aaa gac ttc cgt gct	437
61	Leu Lys Val Phe Phe Met Ser Ser Glu Glu Asn Lys Asp Phe Arg Ala	
62	125 130 135	
64	gtg gga ttg aaa acc aaa gca ggc aga gat gag cta tac tgg aaa aca	485

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65 Val Gly Leu Lys Thr Lys Ala Gly Arg Asp Glu Leu Tyr Trp Lys Thr  
 66 140 145 150 155  
 68 att aac ctt ttc agtatgtt  
 69 Ile Asn Leu Phe  
 73 <210> SEQ ID NO: 2  
 74 <211> LENGTH: 159  
 75 <212> TYPE: PRT  
 76 <213> ORGANISM: human  
 78 <220> FEATURE:  
 79 <221> NAME/KEY: misc\_feature  
 80 <222> LOCATION: (297)..( )  
 81 <223> OTHER INFORMATION: n=a, g, c or t  
 83 <400> SEQUENCE: 2

85 Met Thr Glu Asn Ser Leu Ser Glu Met Ala Ser Lys Ser Trp Leu Asn  
 86 1 5 10 15  
 89 Phe Leu Thr Phe Leu Tyr Gly Ser Ala Ile Gly Phe Ile Leu Phe Ser  
 90 20 25 30  
 93 Gln Leu Leu Ser Ile Leu Leu Gly Glu Gly Asp Thr Gln Thr Asn  
 94 35 40 45  
 97 Val Leu His Asn Asp Pro His Ala Arg His Ser Asp Asp Asn Gly Gln  
 98 50 55 60  
 101 Asn His Leu Gly Gly Gln Met Asn Phe Asn Ala Asp Ser Ser Gln Arg  
 102 65 70 75 80  
 W--> 105 Lys Asp Glu Asn Thr Glu Ile Ala Glu Asn Leu Tyr Xaa Gln Val Lys  
 106 85 90 95  
 109 Ile Leu Cys Trp Val Met Thr Gly Ser Gln Asn Leu Gln Lys Lys Ala  
 110 100 105 110  
 113 Lys His Val Lys Ala Thr Trp Ala Gln Arg Cys Leu Lys Val Phe Phe  
 114 115 120 125  
 117 Met Ser Ser Glu Glu Asn Lys Asp Phe Arg Ala Val Gly Leu Lys Thr  
 118 130 135 140  
 121 Lys Ala Gly Arg Asp Glu Leu Tyr Trp Lys Thr Ile Asn Leu Phe  
 122 145 150 155

125 <210> SEQ ID NO: 3  
 126 <211> LENGTH: 489  
 127 <212> TYPE: DNA  
 128 <213> ORGANISM: human  
 130 <220> FEATURE:  
 131 <221> NAME/KEY: CDS  
 132 <222> LOCATION: (55)..(489)  
 134 <400> SEQUENCE: 3

136 catctaaaaa gactgatgaa gttgattgca aatgctagtc atcataaata ccag aac 57  
 137 Asn  
 138 1  
 140 aca ggt gtc act gac aaa ctc tat caa aag atg aaa att ctt tgc tgg  
 141 Thr Gly Val Thr Asp Lys Leu Tyr Gln Lys Met Lys Ile Leu Cys Trp  
 142 5 10 15  
 144 att atg aca gga cct caa aat cta gaa aaa aag atc aga cgc atc aga  
 145 Ile Met Thr Gly Pro Gln Asn Leu Glu Lys Ile Arg Arg Ile Arg

This is an amino acid sequence  
 Xaa is at  
 location 93

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146	20	25	30	
148	gat aca tgg gcc cag ggt tgc aat aaa gcg ttg ttt atg agc tca aaa			201
149	Asp Thr Trp Ala Gln Gly Cys Asn Lys Ala Leu Phe Met Ser Ser Lys			
150	35	40	45	
152	gaa aat aaa gac ttc tct act gtg gga tta cac acc aaa gaa gac aga			249
153	Glu Asn Lys Asp Phe Ser Thr Val Gly Leu His Thr Lys Glu Asp Arg			
154	50	55	60	65
156	aac caa ctg tcc tgg aaa ata gtt aaa gct ttt cta tat gct cat gac			297
157	Asn Gln Leu Ser Trp Lys Ile Val Lys Ala Phe Leu Tyr Ala His Asp			
158	70	75	80	
160	cat tat ctg gaa tac atg gat tgg ttc atg aaa gca gat gat gat ata			345
161	His Tyr Leu Glu Tyr Met Asp Trp Phe Met Lys Ala Asp Asp Asp Ile			
162	85	90	95	
164	tgt ata tat atc aca ttg gac aac ttg aaa tgg ctt ctc aca aac tat			393
165	Cys Ile Tyr Ile Thr Leu Asp Asn Leu Lys Trp Leu Leu Thr Asn Tyr			
166	100	105	110	
168	aac cct gat gaa tcc act tac ttt ggg aaa aga ttt aag cac tgc aga			441
169	Asn Pro Asp Glu Ser Thr Tyr Phe Gly Lys Arg Phe Lys His Cys Arg			
170	115	120	125	
172	aaa cag gac tac atg act gga gga gca gga tat gta ctg agc aaa gaa			489
173	Lys Gln Asp Tyr Met Thr Gly Gly Ala Gly Tyr Val Leu Ser Lys Glu			
174	130	135	140	145
177	<210> SEQ ID NO: 4			
178	<211> LENGTH: 145			
179	<212> TYPE: PRT			
180	<213> ORGANISM: human			
182	<400> SEQUENCE: 4			
184	Asn Thr Gly Val Thr Asp Lys Leu Tyr Gln Lys Met Lys Ile Leu Cys			
185	1	5	10	15
188	Trp Ile Met Thr Gly Pro Gln Asn Leu Glu Lys Lys Ile Arg Arg Ile			
189	20	25	30	
192	Arg Asp Thr Trp Ala Gln Gly Cys Asn Lys Ala Leu Phe Met Ser Ser			
193	35	40	45	
196	Lys Glu Asn Lys Asp Phe Ser Thr Val Gly Leu His Thr Lys Glu Asp			
197	50	55	60	
200	Arg Asn Gln Leu Ser Trp Lys Ile Val Lys Ala Phe Leu Tyr Ala His			
201	65	70	75	80
204	Asp His Tyr Leu Glu Tyr Met Asp Trp Phe Met Lys Ala Asp Asp Asp			
205	85	90	95	
208	Ile Cys Ile Tyr Ile Thr Leu Asp Asn Leu Lys Trp Leu Leu Thr Asn			
209	100	105	110	
212	Tyr Asn Pro Asp Glu Ser Thr Tyr Phe Gly Lys Arg Phe Lys His Cys			
213	115	120	125	
216	Arg Lys Gln Asp Tyr Met Thr Gly Gly Ala Gly Tyr Val Leu Ser Lys			
217	130	135	140	
220	Glu			
221	145			
224	<210> SEQ ID NO: 5			
225	<211> LENGTH: 1560			

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226 <212> TYPE: DNA  
 227 <213> ORGANISM: human  
 229 <220> FEATURE:  
 230 <221> NAME/KEY: CDS  
 231 <222> LOCATION: (2)..(934)  
 233 <400> SEQUENCE: 5

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235		Asp	Asn	Gly	Gln	Asn	His	Leu	Glu	Gly	Gln	Met	Asn	Phe	Asn	Ala	Asp		
236	1		5					10								15			
238	tct	agc	caa	cat	aaa	gat	gag	aac	aca	gac	att	gct	gaa	aac	ctc	tat		97	
239	Ser	Ser	Gln	His	Lys	Asp	Glu	Asn	Thr	Asp	Ile	Ala	Glu	Asn	Leu	Tyr			
240		20				25						30							
242	cag	aaa	gtt	aga	att	ctt	tgc	tgg	gtt	atg	acc	ggc	cct	caa	aac	cta		145	
243	Gln	Lys	Val	Arg	Ile	Leu	Cys	Trp	Val	Met	Thr	Gly	Pro	Gln	Asn	Leu			
244		35				40					45								
246	gag	aaa	aag	gcc	aaa	cac	gtc	aaa	gct	act	tgg	gcc	cag	cgt	tgt	aac		193	
247	Glu	Lys	Ala	Lys	His	Val	Lys	Ala	Thr	Trp	Ala	Gln	Arg	Cys	Asn				
248		50				55					60								
250	aaa	gtg	ttg	ttt	atg	agt	tca	gaa	gaa	aat	aaa	gac	ttc	cct	gct	gtg		241	
251	Lys	Val	Leu	Phe	Met	Ser	Ser	Glu	Glu	Asn	Lys	Asp	Phe	Pro	Ala	Val			
252	65		70				75				80								
254	gga	ctg	aaa	acc	aaa	gaa	ggc	aga	gat	caa	cta	tac	tgg	aaa	aca	att		289	
255	Gly	Leu	Lys	Thr	Lys	Glu	Gly	Arg	Asp	Gln	Leu	Tyr	Trp	Lys	Thr	Ile			
256		85				90					95								
258	aaa	gct	ttt	cag	tat	gtt	cat	gaa	cat	tat	tta	caa	gat	gct	gat	tgg		337	
259	Lys	Ala	Phe	Gln	Tyr	Val	His	Glu	His	Tyr	Leu	Gln	Asp	Ala	Asp	Trp			
260		100				105					110								
262	ttt	ttg	aaa	gca	gat	gat	gac	acg	tat	gtc	ata	cta	gac	aat	ttg	agg		385	
263	Phe	Leu	Lys	Ala	Asp	Asp	Asp	Thr	Tyr	Val	Ile	Leu	Asp	Asn	Leu	Arg			
264		115				120					125								
266	tgg	ctt	ctt	tca	aaa	tac	gac	cct	gaa	gaa	ccc	att	tac	ttt	ggg	aga		433	
267	Trp	Leu	Leu	Ser	Lys	Tyr	Asp	Pro	Glu	Glu	Pro	Ile	Tyr	Phe	Gly	Arg			
268		130				135					140								
270	aga	ttt	aag	cct	tat	gta	aag	cag	ggc	tac	atg	agt	gga	gga	gca	gga		481	
271	Arg	Phe	Lys	Pro	Tyr	Val	Lys	Gln	Gly	Tyr	Met	Ser	Gly	Gly	Ala	Gly			
272	145		150				155				160								
274	tat	gta	cta	agc	aaa	gaa	gcc	ttg	aaa	aga	ttt	gtt	gat	gca	ttt	aaa		529	
275	Tyr	Val	Leu	Ser	Lys	Glu	Ala	Leu	Lys	Arg	Phe	Val	Asp	Ala	Phe	Lys			
276		165				170					175								
278	aca	gac	aag	tgt	aca	cat	agt	tcc	tcc	att	gaa	gac	tta	gca	ctg	ggg		577	
279	Thr	Asp	Lys	Cys	Thr	His	Ser	Ser	Ile	Glu	Asp	Leu	Ala	Leu	Gly				
280		180				185					190								
282	aga	tgc	atg	gaa	att	atg	aat	gta	gaa	gca	gga	gat	tcc	aga	gat	acc		625	
283	Arg	Cys	Met	Glu	Ile	Met	Asn	Val	Glu	Ala	Gly	Asp	Ser	Arg	Asp	Thr			
284		195				200					205								
286	att	gga	aaa	gaa	act	ttt	cat	ccc	ttt	gtg	cca	gaa	cac	cat	tta	att		673	
287	Ile	Gly	Lys	Glu	Thr	Phe	His	Pro	Phe	Val	Pro	Glu	His	His	Leu	Ile			
288		210				215					220								
290	aaa	ggt	tat	cta	cct	aga	acg	ttt	tgg	tac	tgg	aat	tac	aac	tat	tat		721	

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291	Lys	Gly	Tyr	Leu	Pro	Arg	Thr	Phe	Trp	Tyr	Trp	Asn	Tyr	Asn	Tyr	Tyr
292	225				230				235							240
294	cct	cct	gta	gag	ggt	cct	ggt	tgc	tgc	tct	gat	ctt	gca	gtt	tct	ttt
295	Pro	Pro	Val	Glu	Gly	Pro	Gly	Cys	Cys	Ser	Asp	Leu	Ala	Val	Ser	Phe
296						245				250						255
298	cac	tat	gtt	gat	tct	aca	acc	atg	tat	gag	tta	gaa	tac	ctc	gtt	tat
299	His	Tyr	Val	Asp	Ser	Thr	Thr	Met	Tyr	Glu	Leu	Glu	Tyr	Leu	Val	Tyr
300						260				265						270
302	cat	ctt	cgt	cca	tat	ggt	tat	tta	tac	aga	tat	caa	cct	acc	tta	cct
303	His	Leu	Arg	Pro	Tyr	Gly	Tyr	Leu	Tyr	Arg	Tyr	Gln	Pro	Thr	Leu	Pro
304						275				280						285
306	gaa	cgt	ata	cta	aag	gaa	att	agt	caa	gca	aac	aaa	aat	gaa	gat	aca
307	Glu	Arg	Ile	Leu	Lys	Glu	Ile	Ser	Gln	Ala	Asn	Lys	Asn	Glu	Asp	Thr
308						290				295						300
310	aaa	gtg	aag	tta	gga	aat	cct	tgaaagaaaa	tcatgaatga	acaaaggtaa						913
311	Lys	Val	Lys	Leu	Gly	Asn	Pro									
312	305				310											
314	tatgtctagc	actgcactga	aaaaggactt	ctgcatttct	gacatagaac	actggaatcc										1024
316	cagtgaggaa	ttcttaagtga	acatttccta	tagaaacott	tcacatgaat	gactataaac										1084
318	tgaagcttta	aatgagctgt	gaagtgttt	aaaatgtgtt	ttgatacagt	aatatataaa										1144
320	tatgtctata	tatatgagga	acttgtgtt	tttaatgtgt	ggccaggtag	aggaactaga										1204
322	aaagagattt	tgttgccctgt	tttctgacca	tctgtgttat	tgtcaactgag	aaactaaaat										1264
324	agtaaattta	ctaaaactac	actgcaccat	gttagtaata	aacagatctg	ccttaaagaa										1324
326	aagaaaattt	tagaaagaaa	tattgttgct	cagtgtgtt	aatatagctc	aagaatttgag										1384
328	tttatatttg	cagtatgcta	taaatgatac	ccccctacca	caccacacaca	cacagtttt										1444
330	gtctaatgaa	aatgttgctg	tgattattta	taatggtag	tatttcttcc	agaagaagct										1504
332	aaaataagac	tggcaattac	cctgaagtgc	attaataaaa	ccacacttta	aaatta										1560
335	<210>	SEQ ID NO:	6													
336	<211>	LENGTH:	311													
337	<212>	TYPE:	PRT													
338	<213>	ORGANISM:	human													
340	<400>	SEQUENCE:	6													
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342	1				5				10							15
345	Ser	Ser	Gln	His	Lys	Asp	Glu	Asn	Thr	Asp	Ile	Ala	Glu	Asn	Leu	Tyr
346					20				25							30
349	Gln	Lys	Val	Arg	Ile	Leu	Cys	Trp	Val	Met	Thr	Gly	Pro	Gln	Asn	Leu
350					35				40							45
353	Glu	Lys	Lys	Ala	Lys	His	Val	Lys	Ala	Thr	Trp	Ala	Gln	Arg	Cys	Asn
354					50				55							60
357	Lys	Val	Leu	Phe	Met	Ser	Ser	Glu	Glu	Asn	Lys	Asp	Phe	Pro	Ala	Val
358					65				70							80
361	Gly	Leu	Lys	Thr	Lys	Glu	Gly	Arg	Asp	Gln	Leu	Tyr	Trp	Lys	Thr	Ile
362					85				90							95
365	Lys	Ala	Phe	Gln	Tyr	Val	His	Glu	His	Tyr	Leu	Gln	Asp	Ala	Asp	Trp
366					100				105							110
369	Phe	Leu	Lys	Ala	Asp	Asp	Asp	Thr	Tyr	Val	Ile	Leu	Asp	Asn	Leu	Arg
370					115				120							125
373	Trp	Leu	Leu	Ser	Lys	Tyr	Asp	Pro	Glu	Glu	Pro	Ile	Tyr	Phe	Gly	Arg

VERIFICATION SUMMARY

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1

L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1

L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2